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(57) Abstract:

In FIG.1, a turbo molecular pump includes a pump body 1 and a controller 3 connected to the pump body 1 via cables 2. A terminal 4 provided in the pump body 1 is capable of opening/closing its electrical connection as shown in FIG.2. A discrimination circuit 8 mounted in the controller 3 receives on or off signal based on a state of the terminal 4 and thereby discriminates a type of pump body 1. In FIG.3, a control circuit 9 includes block circuits 10,11 for each type of the pump body 1 and a common circuit 12 for every types of the pump body 1. Based on a result of discrimination executed in the discrimination circuit 8, the controller 3 combines one of the block circuit 10 and 11 with the common circuit 12 to thereby form a suitable control circuit for the pump body 1 connected thereto.